in Response to Office Action dated 08/27/2007

Amendments to the Claims:

Claims 28-30 and 32 have been amended as shown below. Underlines indicate

insertions; strikeouts or double brackets [[]] indicate deletions.

(Previously presented). A trim press article handling apparatus, comprising:

a frame:

a punch carried by the frame;

a die carried by the frame and cooperating in relative movement with the

punch to sever articles from a web;

a treadle carried for movement relative to the die, the treadle including a web

guide member, a primary guide strip spaced from the guide member slightly greater than a

thickness of the web, a secondary guide strip spaced from the guide member at least four

thicknesses of the web and spaced apart from the primary guide strip, and an article

detector carried by at least one of the primary guide strip and the secondary guide strip and

operative to detect position of an article in the web by detecting the position of a

protuberance in the web as the protuberance is conveyed between the primary guide strip

and the secondary guide strip;

control circuitry communicating with the article detector and a drive motor

operative to move the treadle, the control circuitry configured to receive an input signal

from the article detector indicative of the position of a web-supported article relative to the

Q:\Documents\2\8264\US\02\M05 92128 doc 2/27/2008 3:31 PM

in Response to Office Action dated 08/27/2007

punch and the die, and operative to control operation of the drive motor to synchronize

movement of the web-supported article via controlled motion of the treadle; and

a drive wheel assembly for moving a web and articles, the drive wheel

assembly comprising a pair of roller feed assemblies provided on opposed edges of a web,

wherein each of the roller feed assemblies comprises a drive release mechanism

configured to release the roller feed assemblies from respective edges of the web, the

release mechanism carried by the treadle and operative to cooperate with the die as the

treadle is moved towards a stationary platen carrying the die.

2. (Original). The article handling apparatus of claim 1, wherein the knock lever

mechanism comprises a kinematic linkage having a center pivot with the lever arm

provided at one end of the kinematic linkage and the follower wheel provided at an

opposite end of the kinematic linkage.

3. (Original). The article handling apparatus of claim 2, wherein movement of

the treadle toward the platen and die imparts contact of the lever arm with the platen that

imparts retraction of the follower wheel away from the drive wheel that opens up a gap

therebetween and releases a respective edge of a web carried therebetween to enable

lateral adjustment of the web and articles when centering the articles during a severing

operation.

Q:\Documents\2\8264\US\02\M05 92128.doc 2/27/2008 3:31 PM

Application Serial No. 10/788,849
Amendment dated 2/27/2008
In Response to Office Action dated 08/27/2007

4-10. (Cancelled).

11. (Previously presented). The apparatus of claim 14, wherein the article

detector is carried by at least one of the primary guide strip and the secondary guide strip

and operative to detect a position of an article in the web by detecting a position of a

protuberance in the web as the protuberance is conveyed between the primary guide strip

and the secondary guide strip.

12. (Previously presented). The apparatus of claim 14, wherein the gap between

the primary guide strip and the guide member is greater than a thickness of the web of

material.

13. (Previously presented). The apparatus of claim 14, wherein the second guide

strip is spaced at least four thicknesses of the web and spaced apart from the primary

guide strip.

14. (Previously presented). A trim press article handling apparatus, comprising:

a punch and a die carried by a frame, the die cooperating with the punch to

sever articles from a web of thermoformable material:

a treadle carried for movement relative to the die, the treadle including a web

guide member, a primary guide strip disposed adjacent the web guide member, a

in Response to Office Action dated 08/27/2007

secondary guide strip spaced from the guide member, and an article detector to detect a

position of an article in the web;

control circuitry communicating with the article detector, and a drive motor

operative to move the treadle; and

a drive wheel assembly for moving the web and the articles, the drive wheel

assembly comprising a pair of roller feed assemblies provided on opposed edges of the

web, wherein each of the roller feed assemblies comprises a drive release mechanism

carried by the treadle, configured to cooperate with the die as the treadle is moved towards

a stationary platen carrying the die, and configured to release the roller feed assemblies

from a respective edge of the web in response to cooperation of the drive release

mechanism with the die:

wherein the control circuitry is configured to receive an input signal from the

article detector, the input signal being indicative of the position of an article relative to the punch and the die, the control circuitry being operative to control operation of the drive

motor to synchronize movement of the article via controlled motion of the treadle.

15-27. (Cancelled).

28. (Currently amended). A trim press article handling apparatus, comprising:

a punch and a die carried by a frame, the die cooperating with the punch to

sever articles from a web of thermoformable material:

Q:\Documents\2\8264\US\02\M05 92128.doc 2/27/2008 3:31 PM

in Response to Office Action dated 08/27/2007

a treadle configured to move relative to the die, the treadle including a web

guide member, a primary guide strip disposed adjacent the web guide member, a

secondary guide strip spaced from the guide member, and an article detector to detect a

position of an article in the web:

control circuitry communicating with the article detector; and

a drive motor configured to move the treadle; and

a drive wheel assembly for moving a web and articles, the drive wheel

assembly comprising a pair of roller feed assemblies provided on opposed edges of the

web, wherein each of the roller feed assemblies comprises a drive release mechanism

carried by the treadle, configured to cooperate with the die as the treadle is moved towards

a stationary platen carrying the die, and configured to release the roller feed assemblies

from a respective edge of the web in response to cooperation of the drive release

mechanism with the die;

wherein the control circuitry is configured to receive an input signal from the

article detector indicative of position of an article relative to the treadle and control

operation of the drive motor to move the treadle and the article relative to the punch and

the die for synchronized severing of the article from the web.

29. (Currently amended). The trim press article handling apparatus of claim 28,

further comprising a kinematic linkage coupled between the treadle and a platen that

Q:\Documents\2\8264\US\02\M05 92128.doc 2/27/2008 3:31 PM

Application Serial No. 10/788.849

Amendment dated 2/27/2008

in Response to Office Action dated 08/27/2007

supports the punch, the platen driven for movement by the drive motor and operative to

move the treadle with the kinematic linkage and the platen.

30. (Currently amended). The trim press article handling apparatus of claim

2829, wherein the roller feed assemblies are provided on opposed edges of the web

kinematic linkage comprises a rocker arm for proportionately reciprocating the treadle

relative to the platen.

31. (Previously presented). The trim press article handling apparatus of claim 28,

further comprising a knock lever mechanism is carried by the treadle.

32. (Currently amended). The trim press article handling apparatus of claim 28,

wherein a lever arm of the knock lever the drive release mechanism is configured to

eentact communicate with the die as the treadle is moved towards a stationary platen

carrying the die, and a follower wheel of the knock lever mechanism is configured to retract

from a respective drive wheel in response to contact of the lever arm communication of the

drive release mechanism with the die to enable the lateral centering of the web.

33. (Previously presented). The article handling apparatus of claim 1, wherein

the drive release mechanism comprises a knock lever mechanism having a lever arm and

a follower wheel, the lever arm configured to contact the die as the treadle is moved

Q:\Documents\2\8264\US\02\M05.92128.doc. 2/27/2008. 3:31 PM

Application Serial No. 10/788,849

Amendment dated 2/27/2008

in Response to Office Action dated 08/27/2007

towards a stationary platen carrying the follower wheel, and the follower wheel is

configured to retract from the respective drive wheel in response to contact of the lever arm

with the die.